



Strategies for Supportability and Interoperability

NDIA Systems Engineering Conference

By:
Dr. Allen Adler
Acting Director, TTO
23 October 2001



Designing Unmanned Systems for Supportability and Interoperability



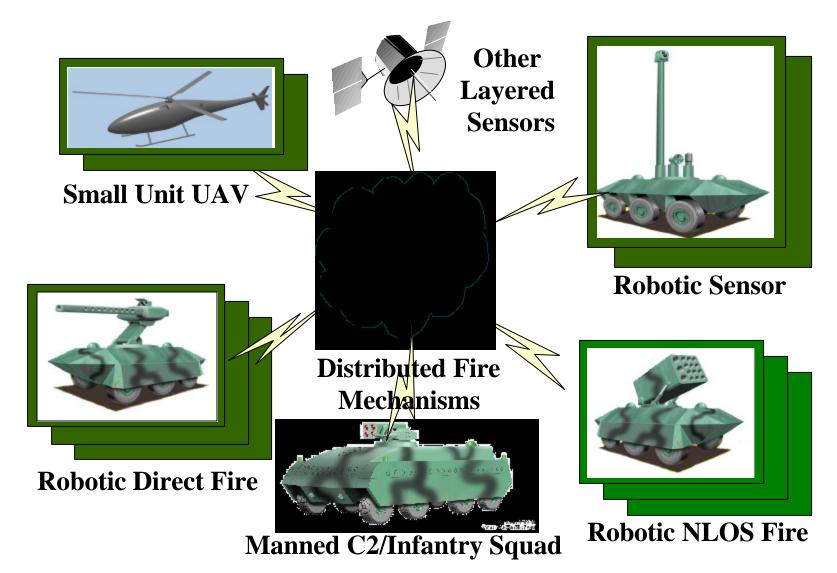
- Design of combined manned/unmanned system
 - Focus on mission(s)
 - Key Questions:
 - How much autonomy?
 - Supportability?
 - Modularity?



DARPA Vision for FCS



A Distributed, Network Centric System of Systems

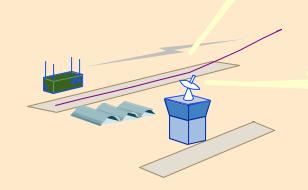




UCAV System Concept



- Revolutionary New Tactical Airpower
 - Force Enabler Preemptive and Reactive SEAD
 - Provide Persistent All Weather Strike Capability
 - Augment Manned Force Structure
 - New CONOPS for High Risk or High Payoff Missions
- New Paradigm in Aircraft Affordability
 - Reduced Acquisition Costs (<1/3 JSF)
 - Dramatically Lower O&S Cost (>75% Reduction)
 - Maintain Mixed Force Structure











High Survivable Design For First Day Penetration

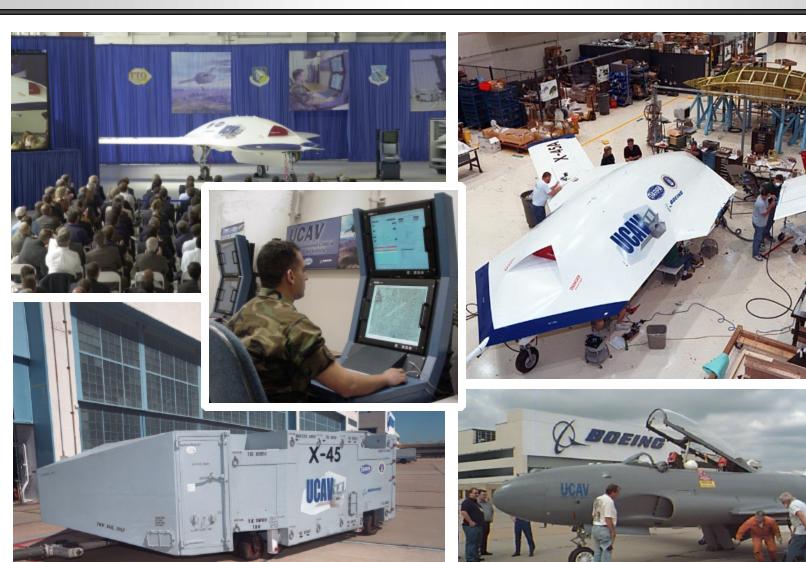


PUBLIC RELEASE



UCAV Demonstrator System





Approved for Public Release – Distribution Unlimited Case #38497



Hummingbird Vehicle Concept





Weight Length Rotor Diameter Ceiling Range Endurance 4,000 lb 35 ft 36 ft 30,000+ ft 2500+ nm 40+ hr



Orbital Express System Concept



